

(a5) adding Freund's adjuvant equal to total volume of said streptococcus mutans type c and type d with high speed homogenized;

(b) immunizing hens with said streptococcus mutans antigen to obtain eggs with active antibody from said hens;

(c) extracting a crude IgY from said eggs by water dilution method;

(d) applying said crude IgY on "DEAE-Sephadex A50" column and eluting with phosphate buffer containing 0.07M of NaCl to obtain eluates of protein peak;

(e) applying said eluates of protein peak on Sephadex G200 column and eluting with phosphate buffer containing 0.1M of NaCl to obtain new eluates of protein peak;

(f) collecting said new eluates of protein peak;

(g) estimating antibody activity of said eluates of protein peaks with "ELISA";
and

(h) eliminating bacteria by 0.22 μ m membrane filtration and lyophilizing to achieve a purified IgY against dental caries bacteria.

D'
could